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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/626,675	07/25/2003	Hidemasa Kai	030901	1831
	7590 08/20/200 I, HATTORI, DANIEL	EXAMINER		
	TICUT AVENUE, NV	KACKAR, RAM N		
SUITE 700 WASHINGTO	N, DC 20036		ART UNIT	PAPER NUMBER
			1792	
			NOTIFICATION DATE	DELIVERY MODE
			08/20/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentmail@whda.com

		Appli	cation No.	Applicant(s)		
Office Action Summary		10/62	6,675	KAI, HIDEMAS	KAI, HIDEMASA	
		Exam	iner	Art Unit		
		Ram I	N. Kackar	1792		
The MAILI Period for Reply	NG DATE of this commu	nication appears or	the cover sheet	with the correspondence	e address	
A SHORTENED : WHICHEVER IS - Extensions of time ma after SIX (6) MONTHS - If NO period for reply - Failure to reply within Any reply received by	STATUTORY PERIOD F LONGER, FROM THE M by be available under the provision. From the mailing date of this com is specified above, the maximum s the set or extended period for reply the Office later than three months ljustment. See 37 CFR 1.704(b).	MAILING DATE OF s of 37 CFR 1.136(a). In r munication. tatutory period will apply a y will, by statute, cause the	THIS COMMU no event, however, may nd will expire SIX (6) No exapplication to become	NICATION. The a reply be timely filed CONTHS from the mailing date of the ABANDONED (35 U.S.C. § 133)	his communication.	
Status						
2a)⊠ This action 3)□ Since this a	e to communication(s) file is FINAL . application is in condition accordance with the pract	2b)∏ This action for allowance exc	ept for formal m	•	the merits is	
Disposition of Clain	าร					
4a) Of the a 5) ☐ Claim(s) 6) ☑ Claim(s) 13 7) ☐ Claim(s)	3-20 is/are pending in the bove claim(s) is/a is/a is/a is/are allowed. 3-20 is/are rejected. 3-20 is/are objected to. 3-20 are subject to restri	are withdrawn from				
	_4! !					
10) The drawing Applicant ma	ration is objected to by the g(s) filed on is/are ay not request that any object drawing sheet(s) including declaration is objected to	: a) ☐ accepted of action to the drawing g the correction is re	(s) be held in abey quired if the drawi	vance. See 37 CFR 1.85(ang(s) is objected to. See 3	7 CFR 1.121(d).	
Priority under 35 U.	S.C. § 119					
a) All b) Certi 2. Certi 3. Copi appli	ment is made of a claim of Some * c) None of: fied copies of the priority fied copies of the priority es of the certified copies cation from the Internation hed detailed Office action	documents have documents have of the priority document Bureau (PCT	been received. been received ir uments have be Rule 17.2(a)).	n Application No en received in this Natio	nal Stage	
	on's Patent Drawing Review (ure Statement(s) (PTO/SB/08)	PTO-948)	Paper N	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application 		

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 13-20 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

In this case the limitation "an abutting section on a rear surface thereof that abuts against a distal end of a susceptor" and "wherein the gas supply channel and the gas discharge channel are formed at positions different from a position of the abutting section" in claim 13 and similar limitation in claim 17 are new matter.

Further, the limitation "wherein a wafer-pocket-side of the first aperture is inwardly defined when viewed from the rear-surface-side opening of the first aperture" in claim 15 and 19 is a new matter.

Still further, the limitation "wherein cross-sectional shape of the second groove narrows from the outer end to the inner end of the second groove" in claims 16 and 20 is a new matter.

Still further the limitation "wherein the groove is curved in a rotating direction of the susceptor, when viewed from the inner end defining the groove" in claim 14 and similar limitation in claim 18 is a new matter.

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2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 13-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In this instance the limitation "an abutting section on a rear surface thereof that abuts against a distal end of a susceptor" and "wherein the gas supply channel and the gas discharge channel are formed at positions different from a position of the abutting section" in claim 13 and similar limitation in claim 17 is indefinite.

Similarly claims 14 and 18 are indefinite since "wherein the groove is curved in a rotating direction of the susceptor, when viewed from the inner end defining the groove" in claim 14 and similar limitation in claim 18 is unclear since the direction of rotation is not fixed.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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4. Claims 13-20 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Goodman et al (US 6454865).

Goodman et al disclose a rotatable (Col 3 lines 13-17) susceptor with a pocket to hold a substrate and gas inlets into the pocket and out lets from the pocket- there are three channels and any of them could be used as supply channel or as discharge channel from the recess (Fig 35, Fig 36 and Fig 37). Further, the gas inlet/outlet comprises apertures through the rear of susceptor to the pocket (See Fig 16 and Col 25 lines 9-42).

Regarding the limitation of the groove having curved shape the groove to hold the arms could be several curved shapes as disclosed in Fig 8, Fig 21-62, Fig 22 and Fig 32. The groove as in Fig 16 is formed from the peripheral end of the susceptor to the gas inlet/outlet (aperture)

Regarding the shape of the groove, it was held in *re Dailey, 357 F.2d 669, 149 USPQ 47* (CCPA 1966) that the shape was a matter of choice which a person of ordinary skill in the art would have found obvious absent persuasive evidence that the particular shape was significant. (Also see MPEP 2144.04(d)). In this instance according to the specification there are several shapes of grooves which are equivalent to each other. Therefore the shape of the groove disclosed by Goodman et al is equivalent and therefore claimed shape is a mere obvious variation.

Regarding the limitation of abutting section the part 50d or 50e would be an abutting section.

Response to Arguments

Applicant's arguments filed 4/23/2009 have been fully considered but they are not persuasive.

Applicant's arguments against the new limitation of 'abutment' are addressed in the main body of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ram N. Kackar whose telephone number is 571 272 1436. The examiner can normally be reached on M-F 8:00 A.M to 5:P.M.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on 571 272 1435. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ram N Kackar/ Primary Examiner, Art Unit 1792